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United States Department of Agriculture,

WASHINGTON, D. C., July 31, 1918.

MONTHLY LIST OF PUBLICATIONS.

[JULY 31, 1918.]

READ CAREFULLY BEFORE ORDERING.

~~Do~~ Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

~~Do~~ Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

~~Do~~ Note.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Sugar-Beet Growing Under Irrigation. By C. O. Townsend, in charge of Sugar-Plant Investigations. Pp. 28, figs. 5. (Farmers' Bulletin 567, Revised Edition.)

For distribution in the Northern and Western States where irrigation is necessary for crop production.

Rodent Pests of the Farm. By David E. Lantz, Assistant Biologist. Pp. 23, figs. 15. Contribution from the Bureau of Biological Survey. (Farmers' Bulletin 932.)
Suitable for general distribution.

Hog Pastures for the Southern States. By Lyman Carrier, Agronomist in Charge of Pasture Investigations, Bureau of Plant Industry, and F. G. Ashbrook, Junior Animal Husbandman in Swine Investigations, Bureau of Animal Industry. Pp. 20, figs. 3. Contribution from the Bureau of Plant Industry and the Bureau of Animal Industry. (Farmers' Bulletin 951.)

For general distribution in the Southern States.

Breeds of Light Horses. By H. H. Reese, Animal Husbandry Division. Pp. 16, figs. 9. Contribution from the Bureau of Animal Industry. (Farmers' Bulletin 952.)

Gives information regarding the Arabian, Thoroughbred, Standardized, American Saddle, Morgan, Hackney, French Coach, German Coach, and Cleveland Bay breeds of horses.

Neufchâtel and Cream Cheese: Farm Manufacture and Use. By K. J. Matheson and F. R. Cammack, Dairy Division. Pp. 35, figs. 12. Contribution from the Bureau of Animal Industry. (Farmers' Bulletin 960.)
Suitable for general distribution.

Transferring Bees to Modern Hives. By E. L. Sechrist, Apicultural Assistant. Pp. 15, figs. 5. Contribution from the Bureau of Entomology. (Farmers' Bulletin 961.)
Of interest to all bee keepers.

Velvet Beans. By S. M. Tracy, Agronomist, and H. S. Coe, Assistant Agronomist, Office of Forage-Crop Investigations. Pp. 39, figs. 14. Contribution from the Bureau of Plant Industry. (*Farmers' Bulletin* 962.)

Suitable for distribution in the Atlantic and Gulf Costal Plain areas of the cotton belt.

Farm Household Accounts. By W. C. Funk, Scientific Assistant. Pp. 11, figs. 6. Contribution from the Office of Farm Management. (*Farmers' Bulletin* 964.) Shows the value of household accounts, and the method of keeping records of same.

Purple Vetch. By Roland McKee, Assistant Agrostologist, Office of Forage-Crop Investigations. Pp. 12, figs. 8. Contribution from the Bureau of Plant Industry. (*Farmers' Bulletin* 967.)

A description of a new crop promising to prove of special value for green manure in the southwestern United States, and as a seed crop in western Oregon.

How to Use Sorghum Grain. By Carleton R. Ball, Cerealist in Charge of Cereal Investigations, and Benton E. Rothgeb, Scientific Assistant in Charge of Grain-Sorghum and Broom-Corn Investigations. Pp. 18, figs. 7. Contribution from the Bureau of Plant Industry. (*Farmers' Bulletin* 972.)

Is suitable for general distribution in the southern part of the Great Plains area and in California, and to grain dealers, poultry raisers, and alcohol manufacturers anywhere.

The Control of European Foulbrood. By E. F. Phillips, Apiculturist. Pp. 16, fig. 1. Contribution from the Bureau of Entomology. (*Farmers' Bulletin* 975.) For general distribution.

Hay Caps. By H. B. McClure, Agriculturist. Pp. 16, figs. 2. Contribution from the Office of Farm Management. (*Farmers' Bulletin* 977.) Describes the various kinds and durability of hay caps and gives costs and method of using same. Suitable for general distribution.

Handling Barnyard Manure in Eastern Pennsylvania. By D. A. Brodie, Agriculturist. Pp. 24, figs. 4. Contribution from the Office of Farm Management. (*Farmers' Bulletin* 978.) This bulletin describes the manure-yard method of handling manure and outlines the farm practices of ten successful farmers who follow this method.

DEPARTMENTAL BULLETINS—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information, as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Stock-Poisoning Plants of the Range. By C. D. Marsh, Physiologist, Pathological Division. Pp. 24, pls. 30. Contribution from the Bureau of Animal Industry. July 23, 1918. (*Department Bulletin* 575.) Price, — cents.

Of interest to sheep and cattle raisers on western stock ranges.

Citrus-Fruit Improvement: A Study of Bud Variation in the Washington Navel Orange. By A. D. Shamel, Physiologist in Charge; L. B. Scott, Pomologist; and C. S. Pomeroy, Assistant Pomologist, Fruit Improvement Investigations, Office of Horticultural and Pomological Investigations. Pp. 146, pls. 16, figs. 14. Contribution from the Bureau of Plant Industry. (*Professional Paper*.) July 22, 1918. (*Department Bulletin* 623.) Price, 15 cents.

Citrus-Fruit Improvement: A Study of Bud Variation in the Valencia Orange. By A. D. Shamel, Physiologist in Charge; L. B. Scott, Pomologist; and C. S. Pomeroy, Assistant Pomologist, Fruit Improvement Investigations, Office of Horticultural and Pomological Investigations. Pp. 120, pls. 14, figs. 9. Contribution from the Bureau of Plant Industry. (*Professional Paper*.) July 25, 1918. (*Department Bulletin* 624.) Price, 25 cents.

Not available for free distribution through this Department.

A Study of Prices and Quality of Creamery Butter. By G. P. Warber, Assistant in Marketing Dairy Products. Pp. 24, figs. 3. Contribution from the Bureau of Markets. July 15, 1918. (*Department Bulletin* 682.) Price, 5 cents.

A study as to the differences in prices of creamery butter in different cities, with suggestions as to marketing same.

The Southern Green Plant-Bug. By Thomas H. Jones, Entomological Assistant. Pp. 27, figs. 11. Contribution from the Bureau of Entomology. (*Professional Paper*.) July 30, 1918. (*Department Bulletin* 689.) Price, 10 cents.

Of interest to growers of vegetable and truck crops, Southern States, especially bordering the Gulf of Mexico.

Marketing Practices of Wisconsin and Minnesota Creameries. By Roy C. Potts, Specialist in Marketing Dairy Products. Pp. 15, figs. 5. Contribution from the Bureau of Markets. July 23, 1918. (*Department Bulletin* 690.) Price, 5 cents.

Should be of interest to creamery men and dairy farmers in the United States.

Typical Specifications for Bituminous Road Materials. By Prevost Hubbard, Chemical Engineer, and Charles S. Reeve, Chemist. Pp. 60, figs. 8. Contribution from the Office of Public Roads and Rural Engineering. July 10, 1918. (*Department Bulletin* 691.) Price, 10 cents.

Of interest to road contractors and engineers.

The Agricultural Species of Bent Grasses. Part I. Rhode Island Bent and Related Grasses. By Charles V. Piper, Agrostologist. **Part II. The Seeds of Redtop and Other Bent Grasses.** By H. T. Hillman, Assistant Botanist. Pp. 27, figs. 11. Contribution from the Bureau of Plant Industry. (*Professional Paper*.) July 23, 1918. (*Department Bulletin* 692.) Price, 5 cents.

A discussion of the identity and characteristics of Rhode Island bent, redtop, florin, velvet bent, and creep-bent grasses. Of interest to seedsmen generally.

Farm Practice in Growing Sugar Beets for Three Districts in Utah and Idaho, 1914-15. By L. A. Moorhouse, T. H. Summers, and R. S. Washburn, Office of Farm Management, and James W. Jones, Bureau of Plant Industry. Pp. 44, figs. 8. Contribution from the Office of Farm Management and the Bureau of Plant Industry. July 16, 1918. (Department Bulletin 693.) Price, 10 cents.

A detailed study of field operations and current cost factors involved in the production of this crop in 1914-15 on 173 farms in the Provo and Garland districts, Utah, and the Idaho Falls district, Idaho.

A Study of Farm Management Problems in Lenawee County, Michigan. By H. M. Dixon, Assistant Agriculturist, and J. A. Drake, Agriculturist. Pp. 36, figs. 8. Contribution from the Office of Farm Management. July 24, 1918. (Department Bulletin 694.) Price, 10 cents.

Presents data obtained in a survey of 300 owner farms and 153 tenant farms in said county.

Profitable Management of General Farms in the Willamette Valley, Oregon. By Byron Hunter and S. O. Jayne, Agriculturists. Pp. 24, figs. 5. Contribution from the Office of Farm Management. July 27, 1918. (Department Bulletin 705.) Price, 5 cents. Of interest to all farmers in said valley.

American Sumac: A Valuable Tanning Material and Dyestuff. By F. P. Veitch, Chemist in Charge, and J. S. Rogers, Assistant Chemist, Leather and Paper Laboratory. Pp. 12, pls. 5. Contribution from the Bureau of Chemistry. July 26, 1918. (Department Bulletin 706.) Price, 5 cents.

Of interest to tanners and manufacturers of dyestuffs.

Suitable Storage Conditions for Certain Food Products: Apples, Potatoes, Sweet Potatoes, Onions, Cabbage, Eggs, Poultry, Butter, and Fish. Ipp. 10 and poster in pocket. Contribution from the Bureau of Markets. July 24, 1918. (Department Bulletin 729.) None for sale.

Prepared for use of the Federal Reserve Board, and is of value to managers of storage warehouses, members of the Federal Reserve Banks, and producers of farm products.

Recent Experimental Work on Poisoning Cotton-Boll Weevils. By B. R. Coad, Entomological Assistant, Southern Field-Crop Insect Investigations. Pp. 15, figs. 10. Contribution from the Bureau of Entomology. July 19, 1918. (Department Bulletin 731.) Price, 5 cents.

Of interest to cotton growers generally.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 14, No. 1. July 1, 1918. Contents: True Nature of Spinach-Blight and the Relation of Insects to Its Transmission. (of Va.-Norfolk-3) By J. A. McClintock and Loren B. Smith.—Influence of Gypsum upon the Solubility of Potash in Spoils. (of Minn.-29) By Paul R. McMiller. Pp. 1-66, pls. 12. Price, 30 cents.

Same, Vol. 14, No. 2. July 8, 1918. Contents: Correlation between the Percentage of Fat in Cow's Milk and the Yield. (oh Ill.-7) By Elmer Roberts.—Contribution to the Knowledge of *Toxoptera graminum* in the South. (oe K-68) By Philip Luginbill and A. H. Beyer.—Can Biologic Forms of Stemrust on Wheat Change Rapidly Enough to Interfere with Breeding for Rust Resistance? (of Minn.-31) By E. C. Stakman, John H. Parker, and F. J. Piemeisel. Pp. 67-123, pls. 6, figs. 10. Price, 20 cents.

Same, Vol. 14, No. 3. July 15, 1918. Contents: Mineral Content of Southern Poultry Feeds and Mineral Requirement of Growing Fowls. (og N. C.-11) By B. F. Kaupp.—Female Lepidoptera at Light Traps. (od K-68) By W. B. Turner. Pp. 125-149, pl. 1. Price, 10 cents.

Same, Vol. 14, No. 4. July 22, 1918. Contents: A Comparative Study of Salt Requirements for Young and for Mature Buckwheat Plants in Solution Cultures. (ok N. J.-) By John W. Shive and William H. Martin.—Composition and Digestibility of Sudan-Grass Hay. (ol Iowa-6) By W. G. Gaessler and A. C. McCandlish.—Water-Holding Capacities of Bedding Materials for Live Stock, Amounts Required to Bed Animals, and Amounts of Manure Saved by their Use. (om Ill.-8) By J. W. Whisenand. Pp. 151-190, figs. 3. Price, 10 cents.

Same, Vol. 14, No. 5. July 29, 1918. Contents: Two Important Introduced Parasites of the Brown-Tail Moth (on -K 69). By C. F. W. Muesebeck.—A Hitherto-Unreported Disease of Okra (oo G-148). By L. L. Harter.—Potato-Stem Lesions. (ox G-149) By H. A. Edson and M. Shapovalov. Pp. 191-220, pls. 8, figs. 3. Price, 15 cents.

~~NOTE~~.—Beginning with volume 5 the *Journal of Agricultural Research* has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3 per year, 52 numbers.

Experiment Station Record. Vol. 38, No. 7, May, 1918. E. W. Allen, Ph. D., Editor. Pp. 601-700. Price, 15 cents.

~~NOTE~~.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at \$1 a volume.

The Monthly Crop Report. Vol. 4, No. 7. July, 1918. Pp. 69-84. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

MISCELLANEOUS.

The Bat Guanos of Porto Rico and Their Fertilizing Value. By P. L. Gile, Chemist. Pp. 66. July 8, 1918. (Bulletin 25, Porto Rico Agricultural Experiment Station.) Price, 10 cents.

Inventory of Seeds and Plants Imported by the Office of Foreign Seed and Plant Introduction, during the period from July 1 to September 30, 1918. [Pp. 71, pls. 11. July 26, 1918. (Inventory No. 44: Nos. 40896 to 41314. Bureau of Plant Industry.)] Price, 15 cents.

Food Needs for 1919. Fall-Sown Wheat and Rye. Pp. 13. (Circular 108, Office of the Secretary.) Part of Agricultural program for the period beginning with the autumn of 1918.

General Regulations Governing Licensees Operating Stock Yards, or Handling or Dealing in Live Stock in or in Connection with Stock Yards. Pp. 14. July 26, 1918. (Circular 116, Office of the Secretary.) Price, 5 cents.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

~~All~~ These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are specifically referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 133. May, 1918. Pp. 33–38. July 9, 1918. Price, 5 cents.

Biological Survey. No. 21. Pp. 2. July 1, 1918. Price, 5 cents.

Bureau of Chemistry. Supplement, No. 52. [N. J. 6051–6100.] Pp. 55–109. July 3, 1918. Price, 10 cents.

Federal Horticultural Board. No. 52. May, 1918. Pp. 53–63. June 28, 1918. Price, 5 cents.

Bureau of Markets. No. 36. Pp. 16, figs. 10. June 21, 1918. Price, 5 cents.

SOIL SURVEYS.

~~All~~ All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Jasper County, Georgia. By David D. Long, of the Georgia State College, and M. Earl Carr, of the U. S. Department of Agriculture. [Pp. 43, fig. 1, map. (From F. O. Soils, 1916.)] Price, 15 cents.

Soil Survey of Mitchell County, Iowa. By W. E. Tharp, of the U. S. Department of Agriculture, and Knute Espe, of the Iowa Agricultural Experiment Station. Pp. 34, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Box Butte County, Nebraska. By F. A. Hayes, of the Nebraska Soil Survey, and J. H. Agee, of the U. S. Department of Agriculture. Pp. 34, pl. 1, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Yates County, New York. By E. T. Maxou. Pp. 36, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

SEPARATES.

National and State Live-Stock Associations and Allied Organizations. Compiled in the Bureau of Animal Industry. Pp. 10. (Separate 742, Yearbook, 1917.) Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

~~All~~ Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 46, No. 4. April, 1918. [June 29, 1918.] Pp. 163–206, charts 9, figs. 4. Price, 25 cents per copy. \$2.50 per year. Payable to the Superintendent of Documents.

Special articles: Solar and sky radiation during April, 1918. By I. F. Hand.—Absorption and radiation of the solar atmosphere. By S. Iirayama.—Halo of April 14, 1918, at Columbus. By H. H. Martin.—Inferior arc of the 46° halo, April 25, 1918. By J. L. Vesper.—Elliptical halos of vertical major axis. By J. B. Dale.—Real velocities of meteors. By Charles P. Olivier.—Visible weather (Chinook?). By R. T. Pound.—Observations connected with the eclipse of June 8, 1918. By H. H. Kimball and S. P. Ferguson.

National Weather and Crop Bulletin. Nos. 16, 17, 18, 19, 20, July, 1918, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

EDWY P. REID,
Chief, Division of Publications.